

Earth Observation in the Middle East and North Africa Region

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MENA Key Facts

- Driest region of the world with large temporal and spatial variations in precipitation
- Climate change impacts projected to be significant
- Agriculture utilizes 85% of available water resources yet modest impact on economic growth
- Largest importers of cereals worldwide
- Over 70% of water resources originate outside political borders
- Inadequate data collection practices

But don't despair..

- Water and agriculture often high national priorities
- New solutions highly welcome
- Significant technical expertise within specialist institutions
- High appreciation for expertise of international specialist agencies
- Opportunity to work on some of the world's most complex and historic water systems



So what can USG experts provide?

- Access to **data and models**
- Tried and tested **applications** in flood/drought modeling, ET mapping and climate change modeling
- Hands-on **training**
- Access to international network of **experts**
- Experience in translating outputs into **impacts**
- Advice on **managing risk**



And what can the Bank provide?

- Bring results/issues to **political attention**
- **Policy** advice (translating science into development impact)
- **Regional connectivity**
- Facilitate **communications** among stakeholders
- Potential **financing** within new/existing projects or with partner donors



<http://blogs.worldbank.org/meetings/world-bank-partners-with-us-to-take-aim-at-water-insecurity>

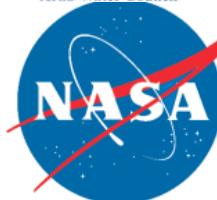
Regional Coordination on Improved Water Resources Management and Capacity Building Program



المجلس العربي للمياه



Arab Water Council



Functional Requirement	Egypt	Jordan	Tunisia	Lebanon	Morocco
Evapotranspiration	x	x	x	x	x
Drought	x	x	x	x	x
Floods Detection and Modeling	x		x		x
Climate Change Impact	x	x	x	x	x
Ground Water Recharge		x	x		x
Irrigation Mapping		x	x	x	x
Crop Mapping		x	x	x	x
Hydrological Modeling and Analysis	x	x	x	x	x
Locust Monitoring			x		x
Lake Nasser Monitoring	x				
Fires				x	
MODIS Direct Broadcast Station			x	x	x

Courtesy of Dr. Shahid Habib, NASA